

METHOD AND SYSTEM FOR MIDSTREAM TRANSCODING  
OF SECURE SCALABLE PACKETS IN RESPONSE TO  
DOWNSTREAM REQUIREMENTS

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ABSTRACT OF THE DISCLOSURE

A method and system for transcoding a stream of data packets are disclosed. The data packets are received from a source node and include data that are encrypted. The stream of data packets is operated on by a function that configures the stream according to downstream attributes, such as the attributes of a receiving node or of the communication channel. Significantly, the function is performed without decrypting the encrypted media data. The stream of data packets configured for the downstream attributes is sent to the receiving node. Because the encrypted data do not need to be decrypted and then encrypted again, the computational resources needed for transcoding the stream of data packets is significantly reduced, and the security of the data is not compromised.

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